







NAME:

CLASS:

St. Joseph's Institution Junior St. Stephen's School

# **CHRISTIAN BROTHERS' SCHOOLS SEMESTRAL ASSESSMENT 1**

2012

**PRIMARY 6** 

**MATHEMATICS** 

PAPER 1

(BOOKLET A)

structions to candidates	
<ul><li>Follow all instructio</li><li>An Optical Answer</li></ul>	•
•	
Thie	booklet consists of 6 printed pages.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

- 1. The number of people in the hall, when rounded off to the nearest hundred, is 3 000. Which of the following could be the actual number of people in the hall?
  - (1) 2899
  - (2) 2905
  - (3) 3048
  - (4) 3159
- 2. What is the missing number in the box?

$$1\frac{3}{4} + 1\frac{3}{4} + 1\frac{3}{4} + 1\frac{3}{4} =$$
  $x\frac{7}{4} + 1\frac{3}{4}$ 

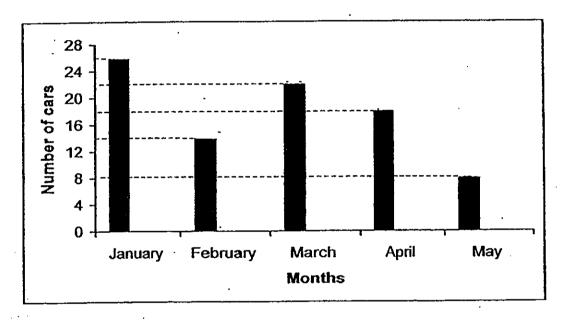
- $(1) \cdot 7$
- (2) 2
- (3) 3
- (4) 4
- 3. Express  $\frac{9}{25}$  km in decimal.
  - (1) 0.036 km
  - (2) 0. 36 km
  - (3) 3.06 km
  - (4) 3.6 km

- 4.  $\frac{2}{5}$  of the children in a hall are girls. What percentage of the children in the hall are boys?
  - (1) 20%
  - (2) 40%

200

- (3) 60%
- (4) 80%
- 5. The average of 3 numbers is 7y. One of the numbers is 2y and the other number is 9. Express the third number in terms of y.
  - (1) 21y-9
  - (2) 19y-9
  - (3) 9y-9
  - (4) 5y-9
- 6.  $\frac{2}{3}$  of James' money is the same as  $\frac{1}{5}$  of Gerald's money. Express Gerald's money as a ratio to the total amount of money both boys have.
  - (1) 2:1
  - (2) 5:6
  - (3) 3:10
  - (4) 10:13

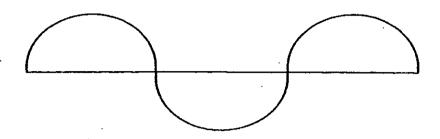
- 7. Find the volume of a cube with a base area of 36 cm<sup>2</sup>.
  - (1) 6-cm<sup>3</sup>
  - (2) 18 cm<sup>3</sup>
  - (3) 216 cm<sup>3</sup>
  - (4) 1296 cm<sup>3</sup>
- 8. The bar graph below shows the number of cars sold from January to May.



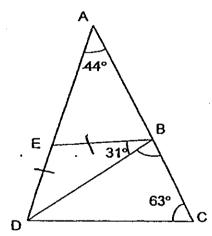
During which period was the decrease in the number of cars sold the greatest?

- (1) January to February
- (2) February to March
- (3) March to April
- (4) April to May

9. The figure shown below is not drawn to scale. It is made up of 3 semi-circles, each radius 14 cm. Find the perimeter of the figure. ( Take  $\pi = \frac{.22}{7}$  )



- (1) 88 cm
- (2) 132 cm
- (3) 174 cm
  - (4) 216 cm
- 10. In the figure below, ABC and AED are straight lines, and BE = ED. Find  $\angle$ DBC.

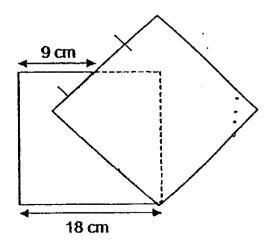


- (1) 31°
- (2) 42°
- (3) 75°
- (4) 86°

- 11. Joe has \$36. If he has the same number of ten-cent coins and fifty-cent coins, how many coins does he have altogether?
  - (1) 120
  - (2) 144
  - (3) 180
  - (4) 240
- 12. There are some geese, chickens and ducks in a farm.  $\frac{2}{5}$  of the animals are geese, the rest are chickens and ducks. The ratio of the number of chickens to the number of ducks is 7:8. If there are 40 more geese than ducks, how many geese are there?
  - (1) 140
  - (2) 160
  - (3) 200
  - (4) 500
- 13. The figure shown below, not drawn to scale, is made up of 2 identical squares overlapping each other. Find the area of the figure.

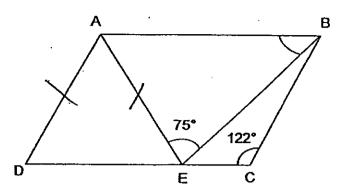


- (2) 324 cm<sup>2</sup>
- (3) 486 cm<sup>2</sup>
- (4) 648 cm<sup>2</sup>



14. In the figure below, not drawn to scale, ABCD is a parallelogram.

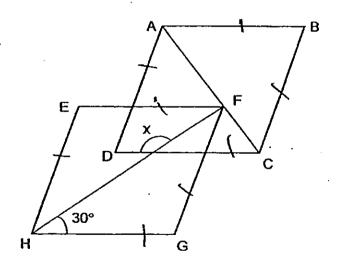
AD = AE and  $\angle$  BCE = 122°. Find the value of  $\angle$  ABE.



- (1) 47°
- (2) 58°

<u>. .</u>...

- (3) 105°
- (4) 122°
- 15. In the figure below, not drawn to scale, ABCD and EFGH are identical rhombuses. Given that AB is parallel HG and AC = EF, find the value of  $\angle x$ .



- (1) 30°
- (2) 60°
- (3) 130°
- (4) 150°

- End of Booklet A -









St. Anthony's Primary \* St. Joseph's Institution Junior

## **CHRISTIAN BROTHERS' SCHOOLS SEMESTRAL ASSESSMENT 1**

2012

# **PRIMARY 6 MATHEMATICS** PAPER 1 (BOOKLET B)

NAME:			<del></del>	(		,
CLASS:	6	•	· 			
15 Questi 20 Marks		÷	••	Total Time for Booklets A	and B	: 50 min

#### Instructions to candidates

- Do not open this booklet until you are told to do so.
- Follow all instructions given at the beginning of each section carefully.
- Answer all questions.
- Do not waste time. If a question is difficult, go on to the next one.
- Write your answers in this booklet.
- You are not allowed to use a calculator.

BOOKLET	MARKS										
	POSSIBLE	ACTUAL.									
Α	20										
В	20										
TOTAL	40										

PARENT'S SIGNATURE:	
This booklet consists of 8 printed pages	S.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

16. The average of 3 numbers is 65. What is the sum of the 3 numbers?

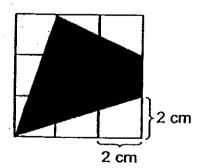
Ans:	The state of the s
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17. What is the missing number in the box?

$$80 \div 4 + x 6 = 80$$

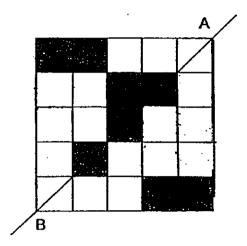
Ans:	
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18. Find the area of the shaded figure in the diagram shown below.

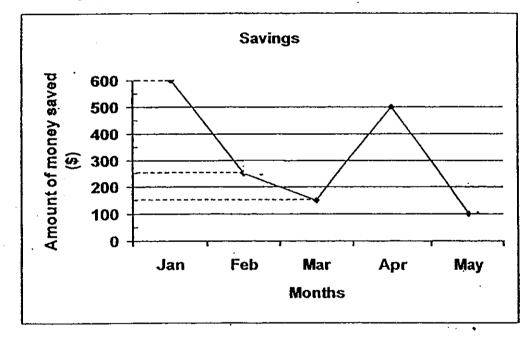


Ans:		cm
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19. Shade 3 squares so that line AB is the line of symmetry for the figure.



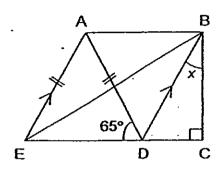
20. The line graph below shows the amount of money William saved over 5 months.



In which month did William save twice as much as the amount he save in February?

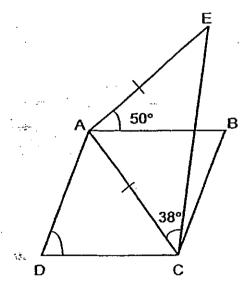
Ans:

21. In the figure below, not drawn to scale, ABDE is a parallelogram and triangle ADE is an isosceles triangle. AE // BD and BC ⊥ CD. ∠ ADE is 65°.
Find the value of ∠ x.



•	
Ans:	o

22. In the figure below, not drawn to scale, ABCD is a rhombus, and AE = AC. Find  $\angle$ ADC.



Ans:	

<b>2</b> 3.	width Sallina baked 65 cupcakes. 20% of the cupcakes were strawberry	
	cupcakes and the rest were chocolate cupcakes. How many more chocolate	
	cupcakes than strawberry cupcakes were there?	
	·	
	·	

24.	The sides of a triangle are in the ratio 4:1:4. The difference between the longest
	side and the shortest side is 18 cm. Find the perimeter of the triangle

Ans: \_\_\_\_\_cm

25. The table below shows the prices of apples and oranges sold at a supermarket.

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William beught 2 oranges and 3 apples. How much did he spend?

(Give your answer in terms of z.)

Ans:	_ cents
* N. 19	<b>-</b> -300000

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.		
	(10 marks)	
26.	Bernice and Charlie went shopping. Bernice bought 2 similar blouses and a dress.	
•	She spent twice as much money as Charlie. They spent \$ 750 altogether. If each	
	dress cost \$ 120, what was the price of a blouse?	
	•	
÷	Ans: \$	
27.	Two barrels X and Y contained different amounts of oil at first. Some oil from X	
	was poured into Y so that the amount of oil in Y was doubled. Then some oil from	
	Y was poured into X so that the amount of oil in X was doubled. After these	
	pouring, the barrels each contained 18 litres of oil. How many litres of oil were in X	
	at first?	
	_ ·	
	•	
	•	
	Ans:litres	

28. A rectangle is folded along the diagonal as shown.

The area of Figure 1 is now  $\frac{5}{8}$  of the area of the original rectangle.

If the area of the shaded triangle is 18cm<sup>2</sup>, find the area of the original rectangle.

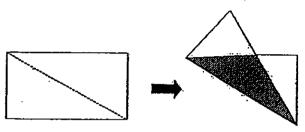


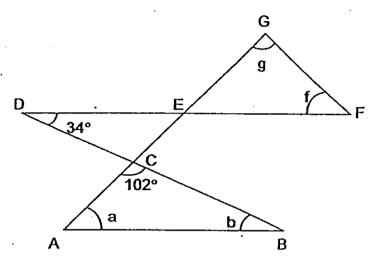
Figure 1

Ans: \_\_\_\_\_am

29. A circular wheel has a diameter of 14 cm. It can make 20 revolutions per minute. How long does it take to travel 44 m? (Take  $\pi = \frac{22}{7}$ )

Ans: \_\_\_\_\_min

30. In the figure shown below, not drawn to scale,  $\angle ACB = 102^{\circ}$  and  $\angle CDE = 34^{\circ}$ . GEA, DEF and DCB are straight lines. Find the sum of  $\angle a$ ,  $\angle b$ ,  $\angle f$  and  $\angle g$ .



- End of Booklet B -









St. Joseph's Institution Junior

# **CHRISTIAN BROTHERS' SCHOOLS SEMESTRAL ASSESSMENT 1**

2012

### **PRIMARY 6**

## **MATHEMATICS**

### PAPER 2

18 Questi 60 Marks	ons	Time: 1 h 40 min
CLASS:	6	
NAME:	(	)

### Instructions to candidates

- Do not open this booklet until you are told to do so.
- Follow all instructions given at the beginning of each section carefully.
- Show all working clearly as marks are awarded for correct working.
- Answer all questions.
- Do not waste time. If a question is difficult, go on to the next one.
- Write your answers in this booklet.
- You are allowed to use a calculator.

BOOKLET	MARKS		
	POSSIBLE	ACTUAL	
PAPER 1	.40 .		
PAPER 2	60	•	
TOTAL	100		

PARENT'S SIGNATURE:				
	This booklet consists of 13 printed pages.			

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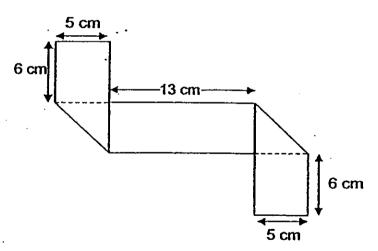
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1. Fredrick's present age is a multiple of 4. Next year, his age will be a multiple of 3. If Fredrick is more than 32 years old but less than 55 years old now, how old is he now?

Ans: \_\_\_\_\_

2. A rectangular piece of paper is folded to form the shape shown below.



Find the perimeter of the rectangular piece of paper before it was folded.

Ans: \_\_\_\_\_cm

### Primary 6 Mathematics Semestral Assessment 1 (2012)

What is the area of the new figure?

3.

**独** 物。

	$\cdot$		
		Ans:	cm²
	-		
4.	Sam has $\frac{3}{7}$ as much money as Michael	and $\frac{3}{4}$ as much mo	ney as Peter.
	What is the ratio of Sam's money to the to		•
	•	olai amount oi mone	ey tile 3 boys
	have?		•
• •			
			-
	••		•
	•	Ans:	
	•		*
5.	Ken has \$70. After receiving \$4x from his	father he has just	enguáh maney
· .	•		
	to buy 3 identical wallets. What is the cos	t of each wallet in to	erms of x?
			• •
	•		
		Ans: \$	
		<del>-</del>	

A rectangle measures 10 cm by 8 cm. Its area is decreased by 20%.

#### Primary 6 Mathematics Semestral Assessment 1 (2012)

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

In a school hall, there were  $\frac{2}{5}$  as many boys as girls. After 3 boys left the hall and another 3 girls entered the hall, there are now  $\frac{1}{3}$  as many boys as girls in the school hall. How many children were there in the school hall at first?

Afris \_\_\_\_\_\_\_[3

7. There are 3 metal rods. The length of Rod A is  $\frac{5}{9}$  of the length of Rod B. Rod C is  $\frac{2}{3}$  as long as Rod B. If Rod B is 81 cm longer than Rod C, find the total length of the 3 rods.

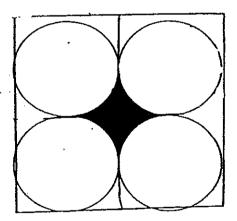
Ans: \_\_\_\_\_\_[3]

or v

8- Max collected 168 more stickers than Sam. After Max received 32 stickers from Sam, Max had 5 times as many stickers as Sam. How many stickers did Sam have at first?

_	•	200
۹ns:		(31
	 ,	··· 4 - 3

9. The figure below shows 4 identical circles of diameter 16 cm. Find the area of the shaded part. (Take  $\pi = 3.14$ ) (Give your answer correct to 1 decimal place.)



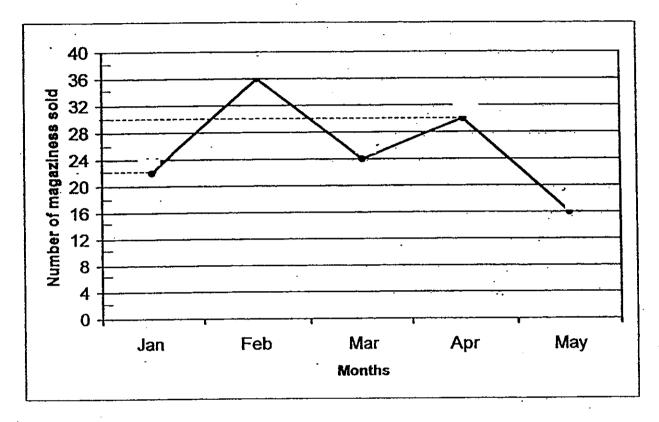
Ans:	,	[3]
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Primary 6 Mathematics Semestral Assessment 1 (2012)

10.	Wendy, Xavier and Sharon had an avera money Wendy and Xavier had was \$88 m	nore than Sharo	n. Xavier had
	\$52 more than Wendy. How much money	y did Xavier have	27
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		•	
		Ans:	

### Primary 6 Mathematics Semestral Assessment 1 (2012)

11. The line graph below shows the number of magazines sold from January to May. \_

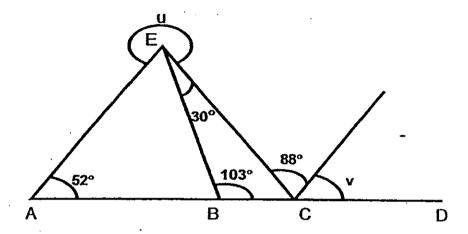


- (a) Find the increase in the number of magazines sold from March to April.
- (b) The total number of magazines sold from January to March was  $\frac{2}{3}$  the total number of magazines sold from April to June. How many magazines were sold in June?

Ans: (a) \_\_\_\_\_[1]

12.	An iron cuboid measuring 27 cm by 3 cm by 3 cm was melted and made					
	into a larger	cube and a sm	aller cube. T	he volume	of the small	er cube was
	$\frac{1}{8}$ of the vo	- lume of the larg	er cube. Fin	d the length	of the side	of the larger
•	cube.					
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- 13. In the figure below, not drawn to scale, ABCD is a straight line. ABE is a triangle. Find
  - (a) ∠ v
  - (b) ∠ u



Ans: (a) \_\_\_\_\_[2]

(b) [2]

### Primary 6 Mathematics Semestral Assessment 1 (2012)

14.	Jasmine and Paul had some money in the ratio 7:4.  Paul and Nick had some money in the ratio 2:1.			
	When Jasmine spent some of her money and Paul gave Nick \$15, the			
	three children had the same amount of money each.			
•	How much money did Jasmine spend?			
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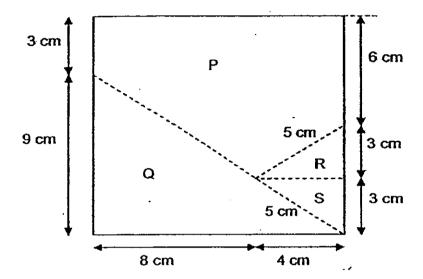
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15.	Town A and Town B are 645 km apart. At 8.30 a.m., a car set off from					
	Town A for Town B at an average speed of					
•	Town B for Town A at an average speed of	of 80 km/h. At what time would the				
	2 vehicles pass each other?					
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	<u>.</u> .					
		•				
		Ans:[4]				

Primary 6 Mathematics Semestral Assessment 1 (2012)

16. At first, Jessie had  $\frac{2}{3}$  as many beads as Lynn. After Jessie bought 84 more beads and Lynn lost 25 beads, Jessie now has  $\frac{4}{5}$  as many beads as Lynn. Find the number of beads Jessie had at first.

- 17. Peter cuts a 12-cm square into 4 pieces P, Q, R and S along the dotted lines as shown. He finds that the four pieces can be arranged to form a rectangle.
  - (a) What is the area of the rectangle that is formed?
  - (b) What is the perimeter of the rectangle that is formed?



Ans: (a)		[1]
(b) <sub>.</sub> .	•	[4]

- 18. The total number of cards in Box A, Box B and Box C was 1022 at first.

  Denise gave away  $\frac{3}{5}$  of the cards from Box A, put 70 more new cards into Box B and added some cards into Box C until the number of cards in Box C became thrice its original number. The ratio of the number of cards in Box A to that in Box B to that in Box C then became 2:5:9.
  - (a) How many more cards were there in Box C than Box A in the end?
  - (b) What was the percentage increase in the number of cards in Box B?

Ans : (a)	[3
(b)	

- End of Paper -

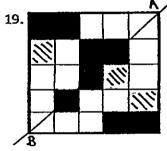
### Christian Brother's Schools Semestral Assessment 1 – 2012 Answer Key for P6 Mathematics Paper 1

1)	3	6)	4	11)	1
2)	3	7)	3	12)	3
3)	2	8)	1	13)	3
4)	3	9)	4	14)	1
5)	2	10)	3	15)	4

16.195

17.10

18.20



20. Apr

21.25

22.72

23.39

24.54

25. (5z + 10)

26. Charlie spent → 750 ÷ 3

= 250

Bernice spent → 250 x 2

= 500

2 Blouses → 500 – 120

= 380

1°Blouse → 380 ÷ 2

= <u>190</u>

 $27.18 \times 2 = 36$ 

 $X (now) \rightarrow 18 \div 2$ 

=9  
Y (now) → 18 + 9  
= 27  
Y (before) → 27 ÷ 2  
= 13.5  
X (before) → 9 + 13.5  
= 
$$\frac{22.5}{}$$

28. 
$$8-5=3$$
  
 $3u \rightarrow \text{ shaded triangle}$   
 $3u \rightarrow 18 \text{ cm}^2$   
 $1u \rightarrow 18 \text{ cm}^2 \div 3$   
 $= 6 \text{ cm}^2$   
 $8u \rightarrow 6 \text{ cm}^2 \times 8$   
 $= 48 \text{ cm}^2$ 

29. Perimeter of wheel 
$$\Rightarrow$$
 14 x (22 ÷ 7)  
= 44 cm  
Travel after a min  $\Rightarrow$  44 x 20  
= 8.8 m  
44 m ÷ 8.8m  $\Rightarrow$  5  
5 x 1 = 5 min

30. Angle DEC 
$$\rightarrow$$
 180  $-43 - 102$   
 $= 44$   
Angle G + F  $\rightarrow$  180  $-44$   
 $= 136$   
Angle A + B  $\rightarrow$  180  $-102$   
 $= 78$   
Angle G + F + A + B  $\rightarrow$  136 + 78  
 $= 214$ 

#### Paper 2

2. Length 
$$\rightarrow$$
 6 + 5 + 13 + 5 + 6  
= 35 cm  
Breadth  $\rightarrow$  5 cm  
Perimeter  $\rightarrow$  (35 + 5) x 2  
= 80 cm

3. Area of rect. 
$$\Rightarrow$$
 10 x 8  
= 80  
80 x (80 ÷ 100) = 64 cm<sup>2</sup>

```
4. P → 4u
S → 3u
M → 7u
Total → 11u
Sam : Total
3 : 14
```

5. 
$$$70 + $4x = $(70 + 4x)$$
  
 $$(70 + 4x) \div 3 = $((70 + 4x) \div 3)$ 

$$28u \rightarrow 3 \times 28$$
$$= 84$$

7. A:B:C  
5:9  
3:2  
5:9:6  

$$3u \rightarrow 81$$
  
 $1u \rightarrow 81 \div 3$   
= 27  
 $20u \rightarrow 20 \times 27$   
=  $540 \text{ cm}$ 

8. 
$$4u \rightarrow 32 + 168 + 32$$
  
= 232  
 $1u \rightarrow 232 \div 4$   
= 58  
Sam at first  $\rightarrow 58 + 32$   
= 90 stickers

10. Total amt the 3 girls have 
$$\Rightarrow$$
 436 x 3 = 1308 + 88 = 1396

```
= 698
    698 + 52 = 750
    Amt Xavier had → 750 ÷ 2
                      = <u>$375</u>
11. (a) 30-24=6
    (b) Total magazine sold from Jan to Mar \rightarrow 22 + 36 + 24
        2u → 82
        1u → 82 ÷ 2
            = 41
        Total magazine sold from Apr to Jun → 41 x 3
        Magazine sold in Jan \rightarrow 123 - 30 - 16
                                = 77 magazines
12. Total vol. of large and small cube \rightarrow 27 x 3 x 3
    List of cube volume until 243 \rightarrow 1, 8, 27, 64, 125, 216
    216 \div 8 = 27
    125 ÷ 15r5
    64 \div 8 = 8
    64 + 8 = 72
    216 + 27 = 243
    _{3}V216 = 6 \text{ cm}
13. (a) Angle ECB → 180° - 103° - 30°
                   =47^{\circ}
       Angle V → 180° - 47° - 88°
                = <u>45°</u>
    (b) Angle EBA → 180° - 103°
                   = 77°
       Angle AEB → 180° - 77° - 52°
                   = 51°
       Angle U → 360° - 51° - 30°
                 = 279°
14. J → 7u
    P \rightarrow 4u
    N \rightarrow 2u
    4u + 2u =6u
    6u ÷ 2 = 3u
    4u - 3u = 1u
    1u → 15
    7u - 3u = 4u
    Jasmine spent 4u.
    4u \rightarrow 15 \times 4 = $60
```

Total amt Wendy and Xavier had → 1396 ÷ 2

```
15. Dist. (car) \rightarrow S x T
                = 70 \times 3.5
                = 245 km
    645 - 245 = 400
    TT speed C + B \rightarrow 80 + 70
                      = 150
    Time \rightarrow (D ÷ S) \rightarrow (400 ÷ 150)
                      = 2¾ h
    2% h after 12 noon is 2.40 pm.
16. 10u + 420 = 12u - 100
    12u - 10u = 420 + 100
    2u → 520
    1u \rightarrow 520 \div 2
        = 260 .
    2u \rightarrow 260 \times 2
        = <u>520 beads</u>
17. (a) area of rect. \rightarrow 9 x (4 + 8 + 4)
                       = 144 \text{ cm}^2
    (b) perimeter of rectangle \Rightarrow (9 + 4 + 8 + 4) x 2
                                   = <u>50 cm</u>
18. (a) A : B : C : T
        5u: 5u-70 : 3u: 13u-70
                       : 9u: 16u
         2u: 5u
       1022 + 70 = 1092
       5u + 5u + 3u = 13u
       13u → 1092
       1u → 1092 ÷ 13
           = 84
       9u – 2u = 7u
       7u \rightarrow 7 \times 84
           = <u>588 cards</u>
    (b) Percentage increase in no. \rightarrow (70 ÷ 350) x 100
```

= 20%

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